

Cost-effective optical transceiver module QSFP



Article Overview

Third-party QSFP28 modules can offer the same performance as OEM units at a fraction of the cost, often reducing expenses by 60-90% while maintaining compatibility.

Overview of QSFP Modules

QSFP (Quad Small Form-Factor Pluggable) modules are high-density, hot-swappable optical transceivers used in data centers and enterprise networks. They aggregate multiple electrical lanes into a single compact form factor, supporting bandwidths from 40 Gbps (QSFP+) to 100 Gbps (QSFP28) and beyond (QSFP56, QSFP-DD) while maintaining backward compatibility with earlier generations . QSFP28 modules, for example, use four 25 Gbps lanes to achieve 100 Gbps aggregate throughput, making them ideal for spine-leaf architectures and high-performance computing networks .

Cost Considerations

- **OEM vs Third-Party Pricing:** OEM QSFP28 modules can cost several hundred to over a thousand dollars per unit, depending on reach and vendor . Third-party compatible modules often provide identical optical performance at significantly lower prices. For instance, a QSFP28 LR4 module that costs \$780 from an OEM can be purchased for around \$280 from a compatible supplier, saving over 60% . Short-reach modules (SR4) can start as low as \$35 .
- **Hidden Costs:** When budgeting, consider shipping, customs duties, spare inventor...

Article Content

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Modern data centers rely on high-speed optical links, and 100G optical transceiver modules (especially the QSFP28 form factor) are

100G QSFP28 Transceivers: Types, Specs and How to Choose

A complete guide to 100G QSFP28 transceivers covering types, specs, reach, compatibility, and how to choose the right module for

What is QSFP & QSFP+ Transceiver: An Ultimate Guide

What is a QSFP & QSFP+ Transceiver? QSFP stands for Quad Small Form-factor Pluggable. By integrating four-lane

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Discover 100G QSFP28 module pricing. Learn key cost factors, considerations, and real examples to make informed

400G QSFP-DD LR4/ER4-30 : Optical Transceiver Module | NEC

400G QSFP-DD LR4/ER4-30 The NEC's 400G QSFP-DD optical transceiver is a cost-effective optical transceiver that achieves

Optical Transceiver Modules, HUAWEI Cisco SFP SFP+ QSFP

Migrate to 400G connectivity, with QSFP-DD modules that provide super-high density and backwards compatibility. Double your port

Transceivers Explained: SFP vs SFP+ vs SFP28 vs QSFP+ vs QSFP28

Understanding the differences between SFP, SFP+, SFP28, QSFP+, and QSFP28 is key to building efficient, scalable networks. At

QSFP Transceiver Modules | 40G, 100G, 400G QSFP+, QSFP28

Shop a complete range of reliable QSFP transceiver modules. Find compatible QSFP+, QSFP28, and QSFP-DD optics for data rates

40G QSFP Transceiver

QSFPTEK offers 40G transceivers with QSFP form factor, enabling customers cost-effective, high-density, and low-power 40G

SFP vs QSFP: Key Differences Explained

SFP vs QSFP module differences explained. Learn about compatibility, speeds, and use cases for network setups.

What Is QSFP+ Module: QSFP+ Transceiver Wiki and Types

As the researches show, the communication network is in urgent need of the optical transmission bandwidth upgrade

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What factors influence 400G optical transceiver modules price

Discover the key factors that drive 400G optical transceiver pricing—from form-factor and component costs to market dynamics and

QSFP28 SR4 Optical Transceiver Module Overview

Explore FS QSFP28 SR4 optical transceiver with low power consumption, perfect compatibility, and reliable

SFP SFP+ QSFP Modules: Speed, Distance & Network

Compare SFP, SFP+ and QSFP modules by speed, distance, density and use-case to choose the best

QSFP vs SFP: Which Optical Transceiver Should You Choose in 2025?

These two transceiver form factors support different speeds, applications, and densities—but which one is right for

Optical Transceiver Buying Guide: SFP/QSFP Explained for

Buying optical transceiver modules online can be straightforward and efficient when you understand your network's

Design and Implementation Scheme of QSFP28 Optical Transceiver

A quad, small form-factor pluggable 28 Gbps optical transceiver design scheme is proposed. It is capable of

Understanding Optical Transceiver Modules: A Comprehensive Guide

Multimode optical transceiver modules often use 850nm, leveraging cost-effective VCSEL (Vertical-Cavity Surface

40G QSFP+ Transceiver Modules | Optical Transceivers

FS 40G QSFP+ optical transceiver module solutions offer a full range of QSFP+ modules from 150m to 80km reach, and used for

QSFP-DD Price Guide 2026: 400G/800G Costs & TCO Analysis

This guide delivers clear, accurate pricing data. It breaks down the current costs for 400G and 800G modules,

QSFP-DD Optical Transceivers for High-Speed Connections

Cisco's comprehensive portfolio of QSFP-DD modules support 400G and 800G data rates across copper, multimode

QSFPTEK Online Store for Optical Transceivers

The official store for QSFPTEK. We provide compatible optical modules with online shopping function.

800G QSFP-DD Cable and Transceiver Modules Data Sheet

This transceiver is compliant with IEEE802.3ck, IEEE 802.3cu, QSFP-DD MSA and CMIS Rev 5.0 standards, suitable

100G QSFP28 Transceiver Modules | Optical Transceivers

FS offers a growing portfolio of 100G QSFP28 modules. The 100G QSFP28 module solution provides high-performance 100GbE

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.thebucketlistbook.co.za>

Email: sales@thebucketlistbook.co.za

Phone: +33 1 42 78 39 16

Address: 10 Rue de la Paix, 75002 Paris, France

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